

DOCKER COMPOSE

Docker Compose is a tool that allows you to define and manage multi-container Docker applications. It simplifies the process of running multiple containers, their configurations, and their interdependencies. Compose uses a YAML file to define the services, networks, and volumes required for your application.

- Docker Compose is a tool which is used to manage multi container-based applications.
- Using Docker Compose we can easily setup & deploy multi container-based applications.
- We will give containers information to Docker Compose using YML file (docker-compose.yml)
- Docker Compose YML should have all the information related to containers creation.

DOCKER COMPOSE COMMANDS:

```
sudo apt install docker-compose -y
```

```
docker-compose up -d
```

```
docker exec -it akshitha-db-1 /bin/bash
```

```
sudo nano docker-compose.yaml
```

docker-compose.yaml

```
version: '3'
```

```
services:
```

```
  web:
```

```
    image: nginx:latest
```

```
    ports:
```

```
      - 80:80
```

```
  db:
```

```
    image: mysql:latest
```

```
    environment:
```

```
      - MYSQL_ROOT_PASSWORD=secret
```

MINIKUBE

```
sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
```

```
chmod +x kubectl
```

```
mkdir -p ~/.local/bin
```

```
mv ./kubectl ~/.local/bin/kubectl
```

```
kubectl version --client
```

```
curl -LO https://github.com/kubernetes/minikube/releases/latest/download/minikube-linux-amd64
```

```
sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64
```

```
minikube start
```

```
minikube status
```